

User's Manual

XPOS70-5B-C15G



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Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Regulatory Information

FCC Notices



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

This device complies with Part 15 (A) of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS DEVICE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

CE Notice



This device complies with **EMC Directive 2004/108/EC** issued by the Commission of the European Community.

WEEE Notice



The **WEEE** mark applies only to countries within the European Union (EU) and Norway.

This appliance is labeled in accordance with

European Directive 2002/96/EC concerning **waste electrical and electronic equipment (WEEE)**. The

Directive determines the framework for the return

and recycling of used appliances as applicable

throughout the European Union. This label is applied

to various products to indicate that the product is not

to be thrown away, but rather reclaimed upon end of

life per this Directive.

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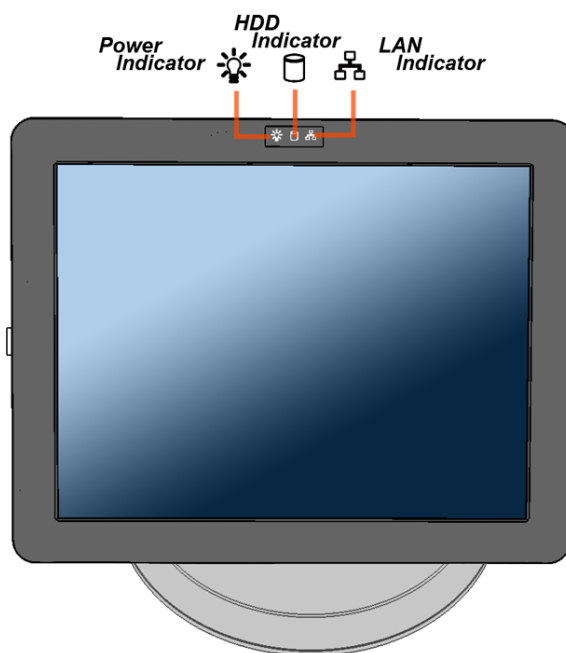
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Hardware Setup

1.1. Quick Tour

Front View and Side View



LED Indicator



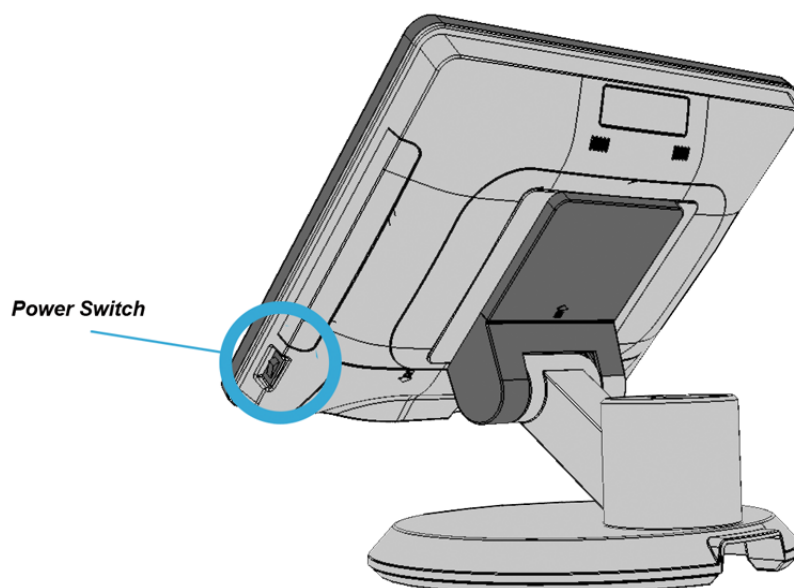
The **Power** indicator will glow green when power is on.



The **HDD** indicator will blink green when the HDD is accessed.

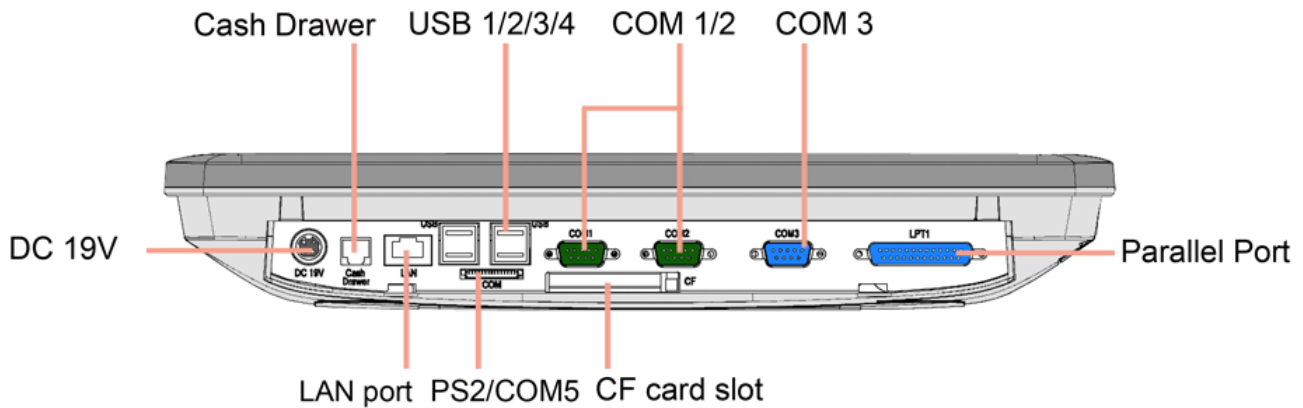


The **LAN** indicator will blink green when transferring data through the LAN.

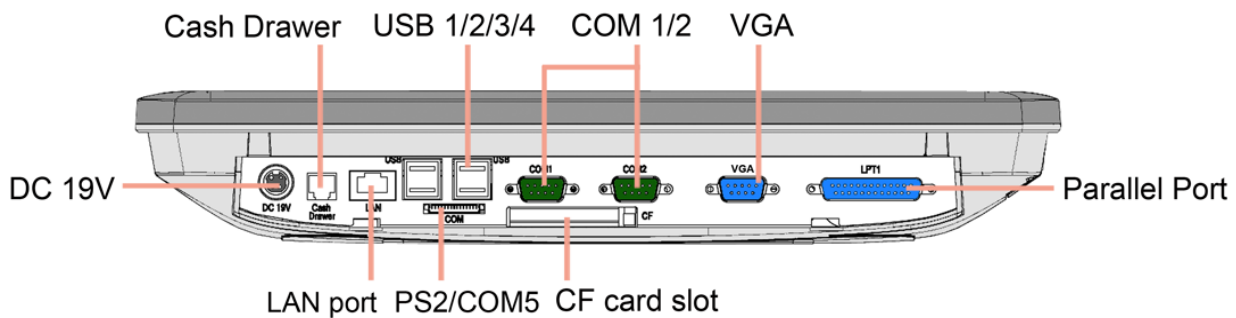


Back Panel I/O

Basic Version

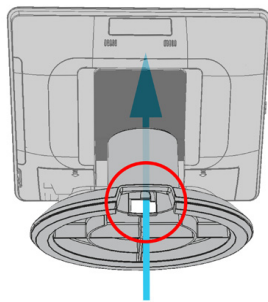


2nd Display Version (with VGA port)



1.2. Basic Peripherals Installation

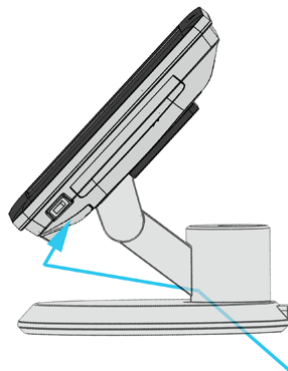
All cables and wires from peripherals to the POS device are recommended to be connected in the direction as shown below.



Rear

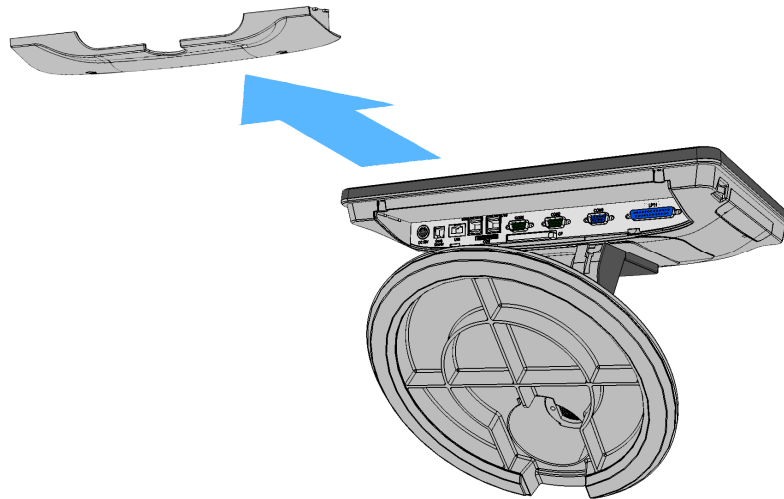


Front



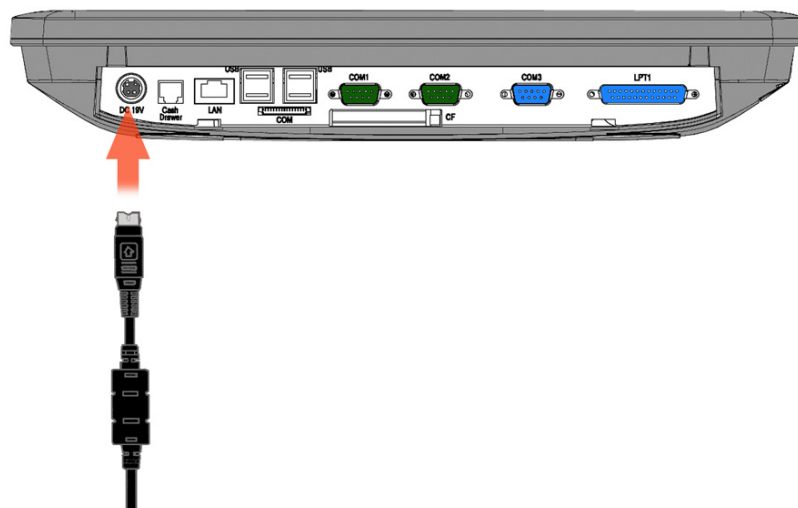
Side

Remove the IO panel cover from the device.



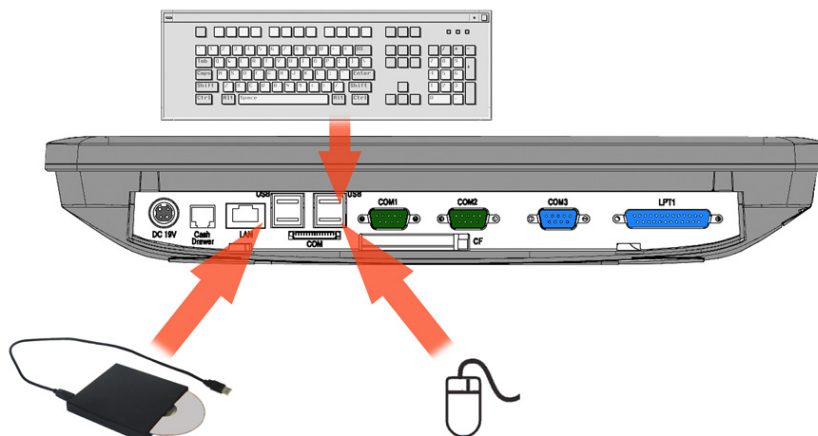
Power Adapter

Connect the 4-pin output jack of the adapter to the **DC 19V** jack on the back panel of the device.



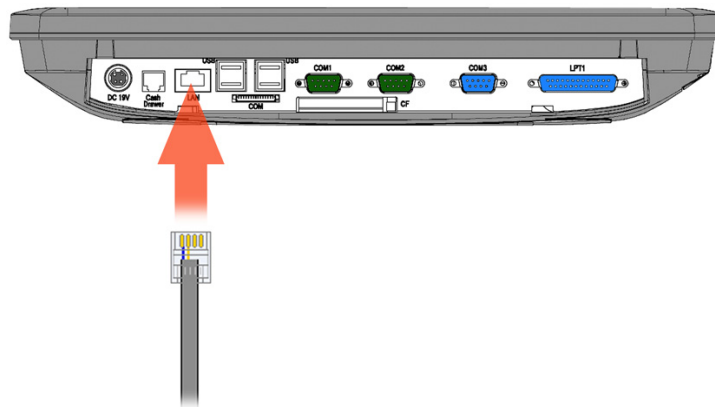
USB Mouse, USB Keyboard and USB ODD

Connect your USB Mouse, USB Keyboard and USB ODD to **USB** ports on the back panel of the device.



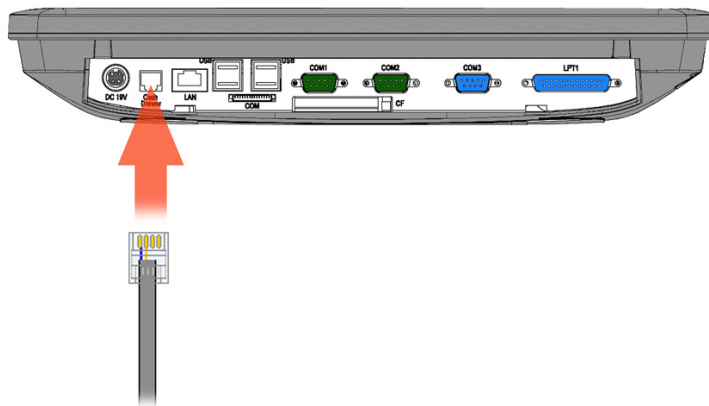
LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN** port on the back panel of the device, another end to your internet device.



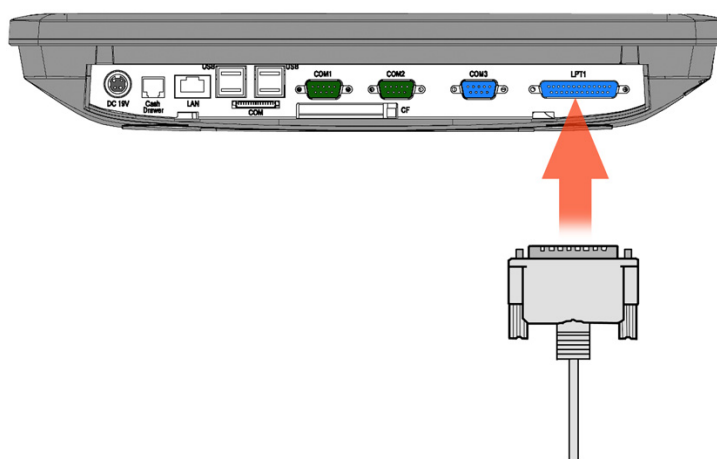
Cash Drawer

Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the device, another end to your cash drawer.



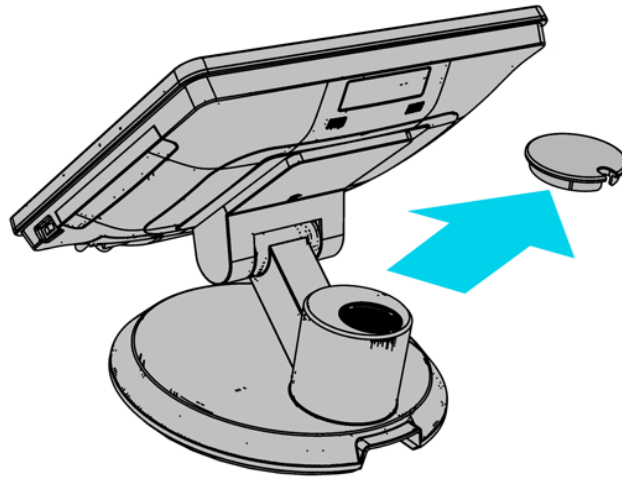
Printer

Connect the parallel cable of your printer to the Parallel Port on the back panel of the device.

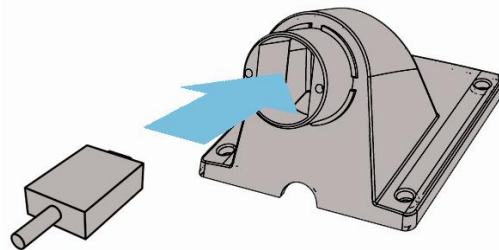


2nd Display

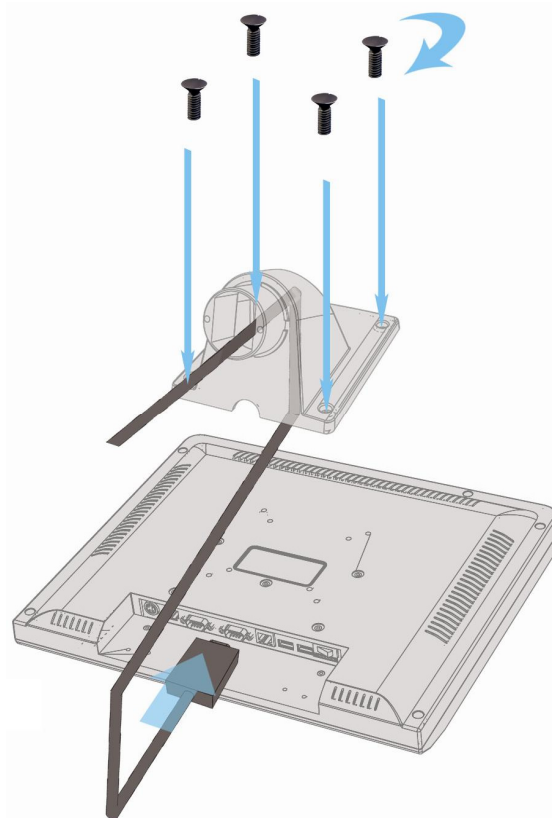
1. Remove the cover from the base.



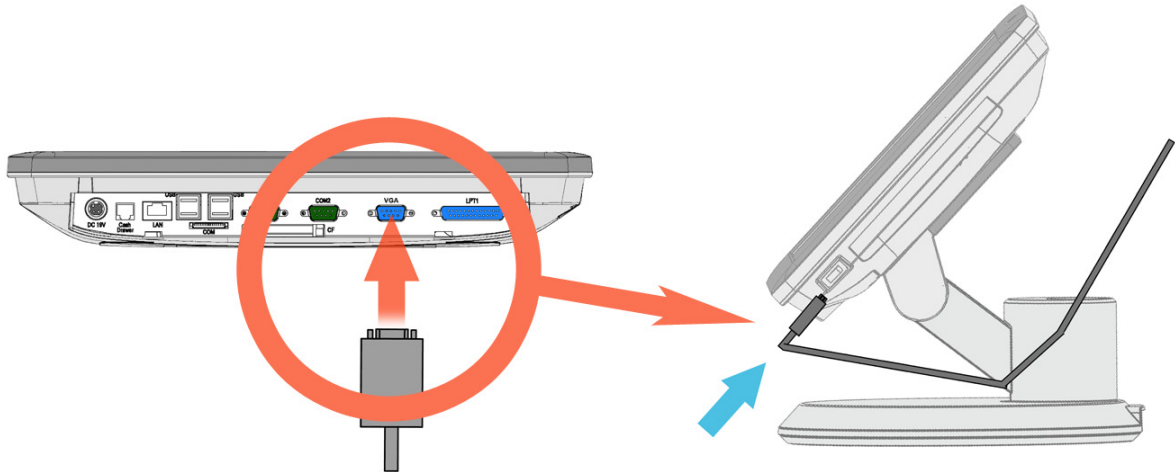
2. Feed one head of the VGA cable through the 2nd display support.



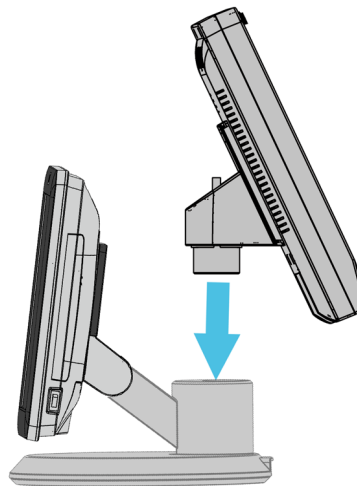
3. Connect the head of the VGA cable to the VGA port of the 2nd display support, and then tighten the four screws to fix the 2nd display support onto the 2nd display as shown below.



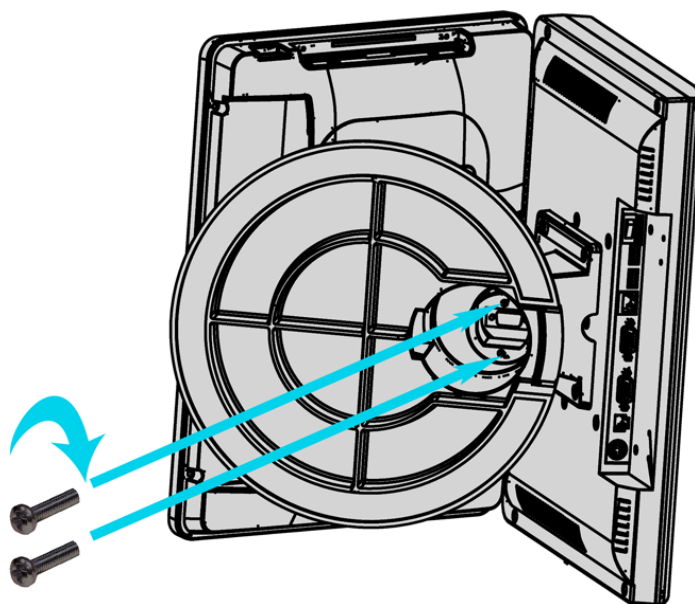
4. Feed another head of the VGA cable through the base of the device and then connect it to the VGA port of the device.



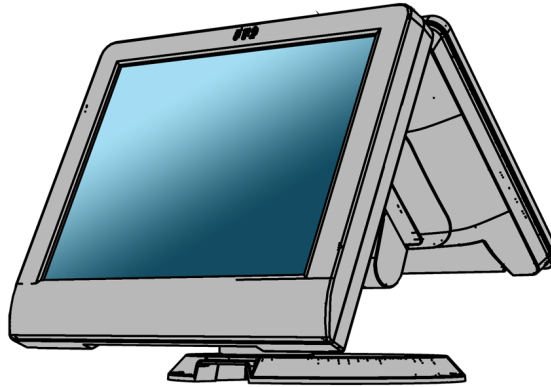
5. Insert the 2nd display onto the base of the device.



6. Tighten the two screws to fix the 2nd display.

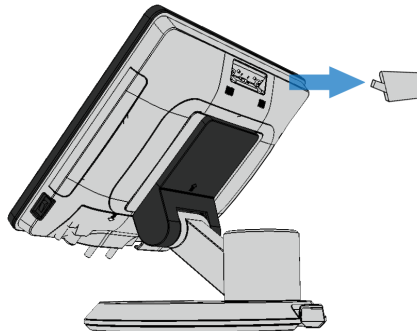


7. Finished.

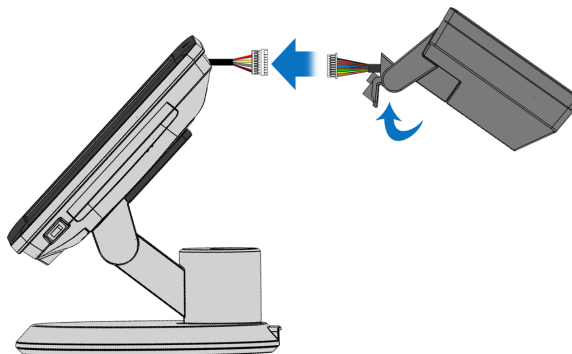


Customer Display

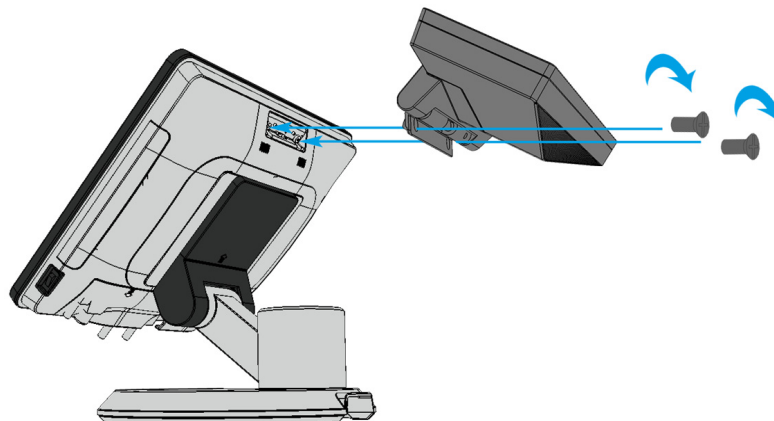
1. Remove the customer display mounting hole cover from the device and pull out the connector from the device.



2. Adjust the hinge of the customer display, and then connect to the device as shown below.



3. Mount the customer display to the device and tighten the two PHILLIPS M3 screws as shown below.

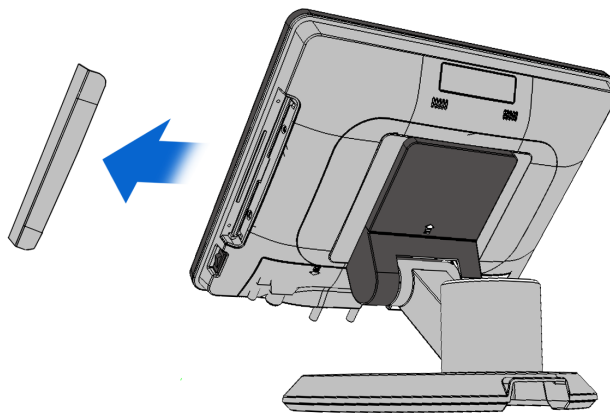


4. Finished.

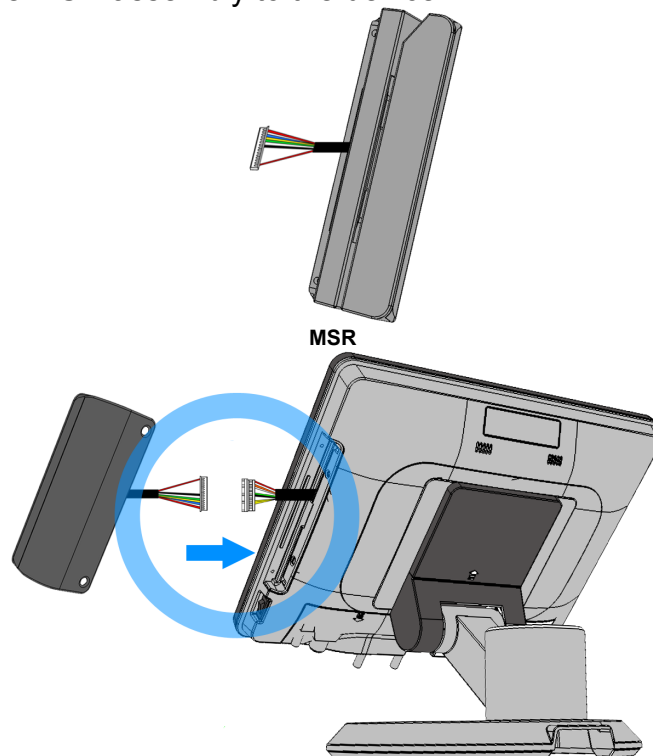


MSR

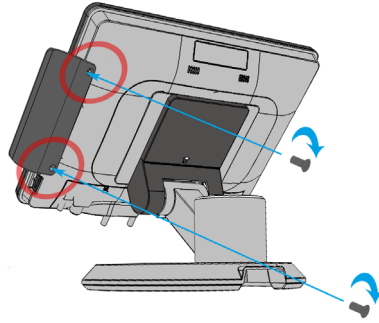
1. Remove the MSR cover from the device.



2. Connect the cable of the MSR assembly to the device.



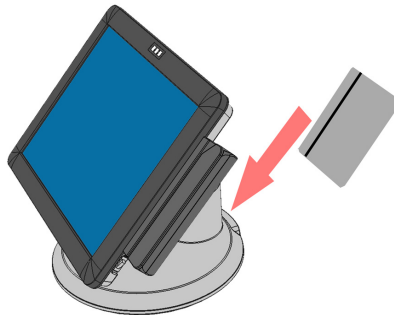
3. Tighten the two PHILLIPS M3 screws to fix the MSR assembly as shown below.



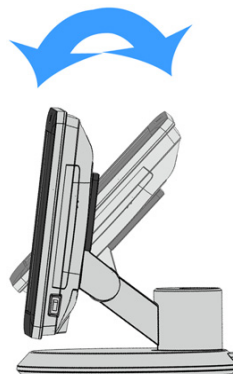
Note:

The RS232 MSR is powered by **COM5**, Baud rate is 9000, 8, n, 1.

4. Finished.

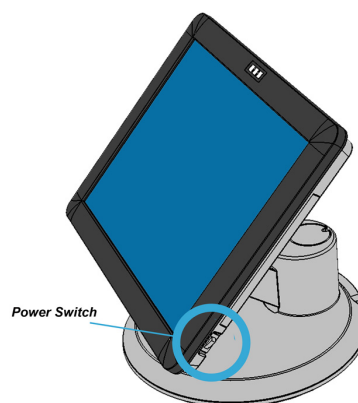


1.3. Adjust Angle



1.4. Turn on the device

1. Make sure all peripherals are connected properly.
2. Press and hold the power switch until the power indicator on the front panel glow green.



Basic Driver Installation

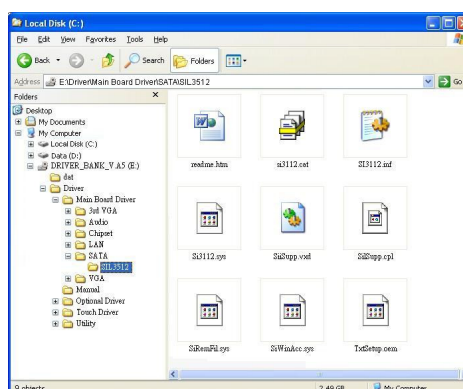
2.1. Before the installation

1. Connect an external USB CDROM to the USB power and insert the driver CD and turn on the device. The program autoruns and displays the **DRIVER BANK** screen.
2. Follow the on-screen instructions.

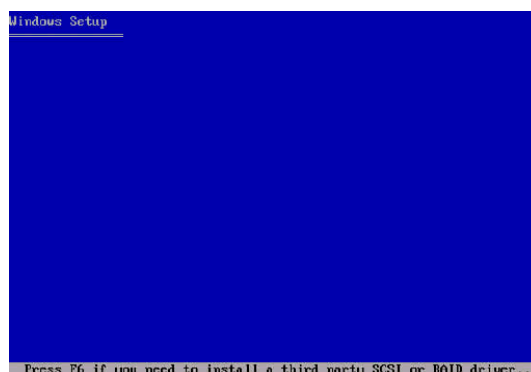
2.2. SATA HDD Driver Installation

The SATA HDD driver installation must be done before the Microsoft Windows XP installation.

1. On your another computer, load the driver CD into the DVD/CD ROM drive
2. Point to the path: "x":\Driver\Main Board Driver\SATA\SIL3512 ("x" is the drive letter of your DVD/CD ROM drive. The example here is "E"), and you will see 9 files under this directory.



3. Copy these 9 files to a floppy disk.
4. Connect a USB floppy disk drive to your POS device, and insert the floppy disk containing the files copied in Step 3 into the USB floppy disk drive.
5. Start the Microsoft Windows XP installation.
6. When Microsoft Windows XP installation is launching, pressing the F6 key.



7. The message shows asking you to select the SATA driver, select the one for XP by pressing keyboard.

8. Follow the instruction shows on the screen to complete the Microsoft Windows XP installation.

2.3. Chipset Software Installation

1. On the main screen, click

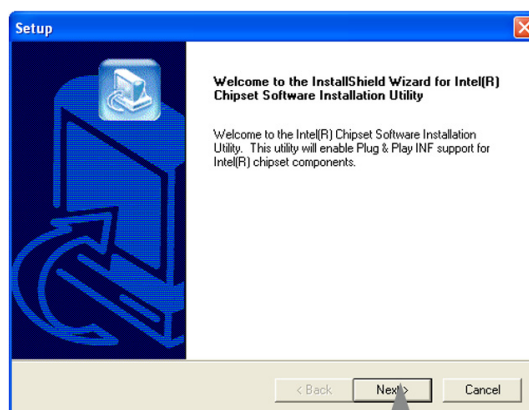
"EZPOS308/EZPOS712/EZPPC712/BOXPC70/SmartPOS70/SmartPPC70 /X-POS70 Series".



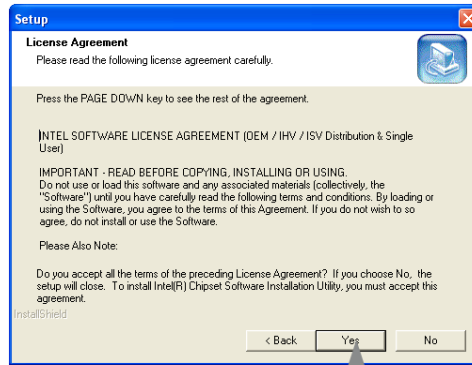
2. Click **INTEL Chipset Driver**.



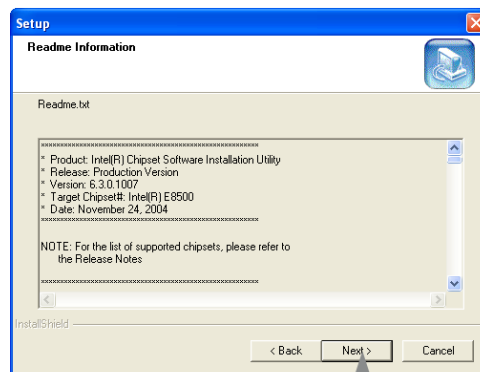
3. Click **Next**.



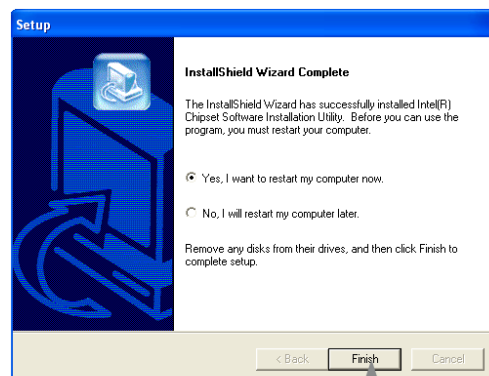
4. Read the License Agreement carefully and click **Yes**.



4. Click **Next**.

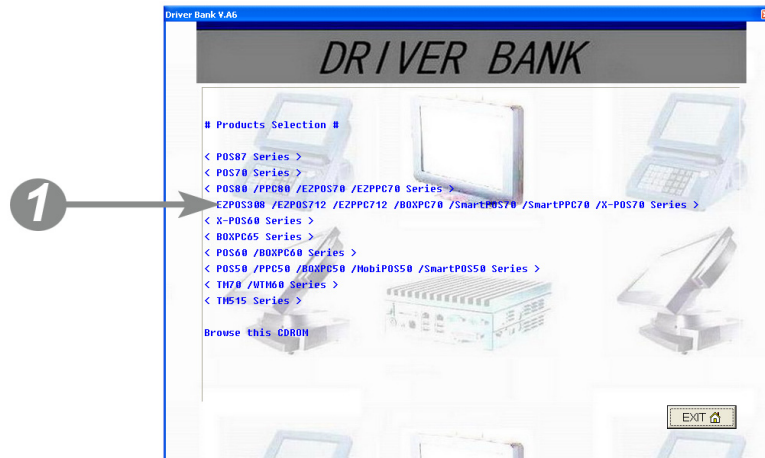


6. Select restart your computer right now or later, and then click **Finish**.

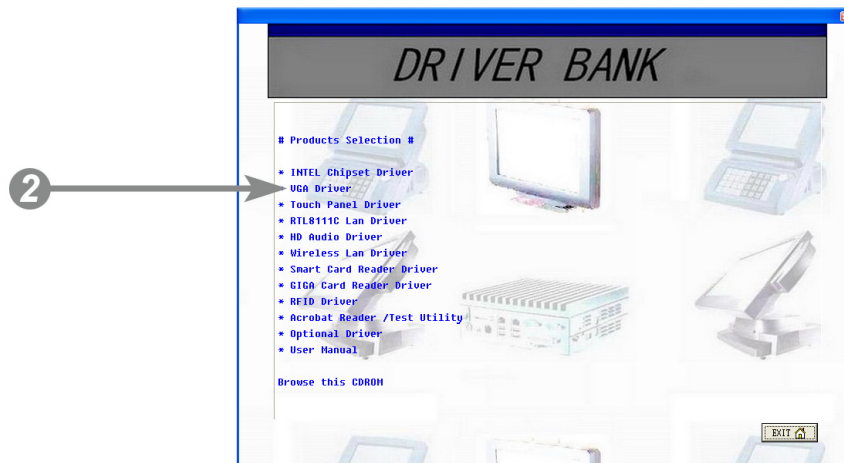


2.4. VGA Driver Installation

1. On the main screen, click
“EZPOS308/EZPOS712/EZPPC712/BOXPC70/SmartPOS70/SmartPPC70
/X-POS70 Series”.



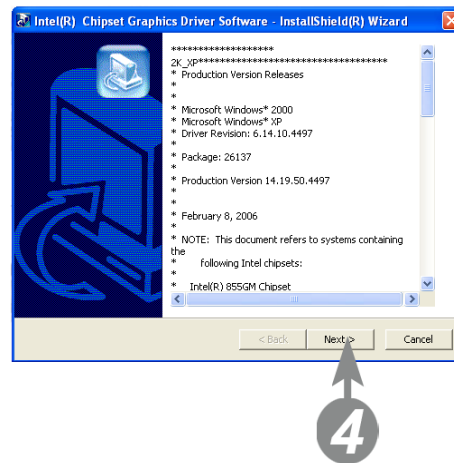
2. Click **VGA Driver**.



3. Click **VGA Driver for WIN2K/XP** under “852GM”.



4. Click **Next**.



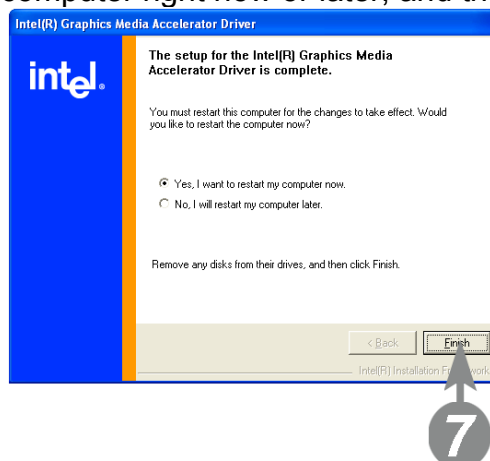
5. Click **Yes**.



6. Read the License Agreement carefully and click **Next**.



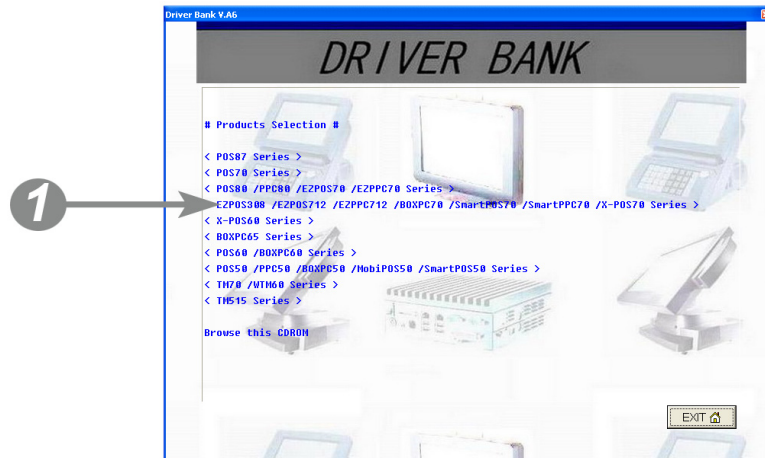
7. Select restart your computer right now or later, and then lick **Finish**.



2.5. Touch Screen Driver and Software Utility installation

1. On the main screen, click

“EZPOS308/EZPOS712/EZPPC712/BOXPC70/SmartPOS70/SmartPPC70 /X-POS70 Series”.



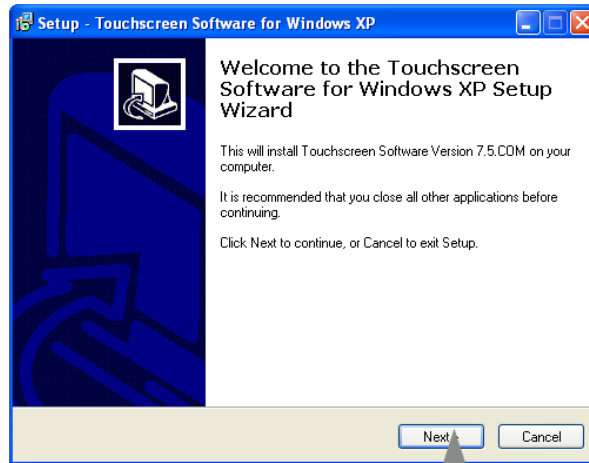
2. Click **Touch Panel Driver**.



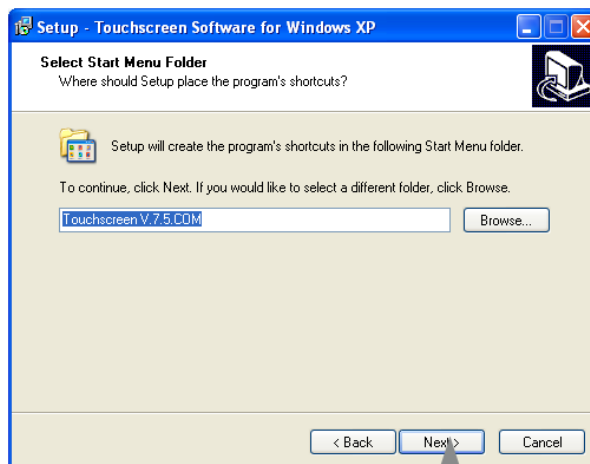
3. Click **Touch Panel Driver for WINXP**.



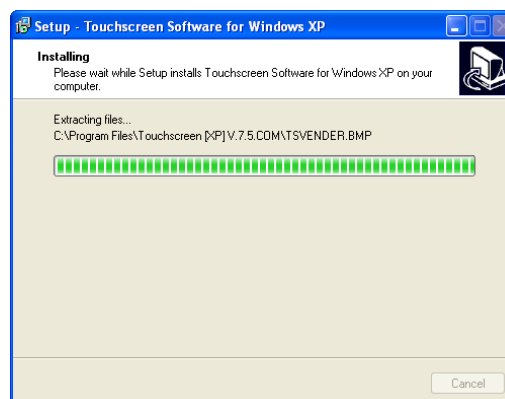
4. Click **Next**.



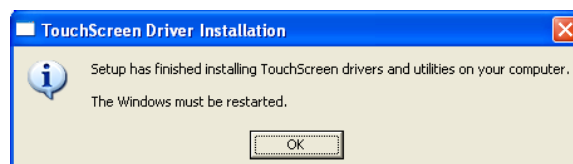
5. Click **Next**.



6. The procedure of installation starts.

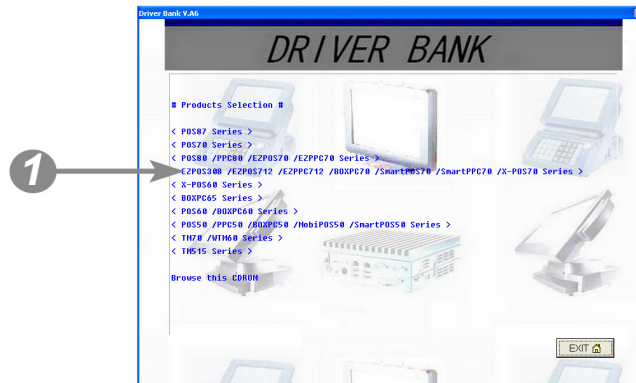


7. Click **OK**.



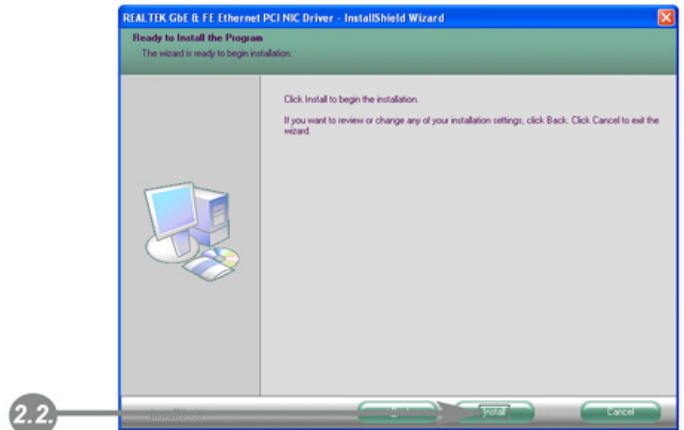
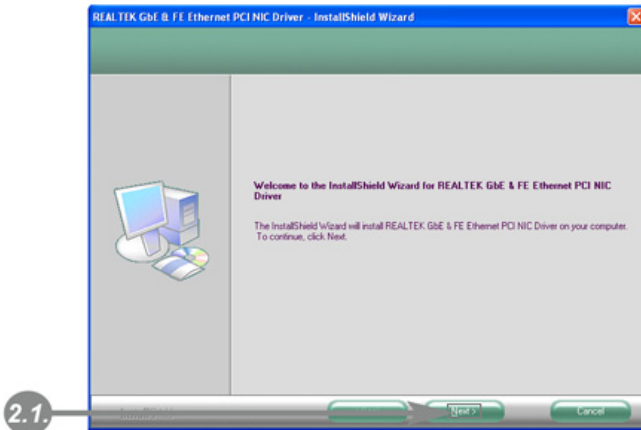
2.6. LAN Driver Installation

1. On the main screen, click
“EZPOS308/EZPOS712/EZPPC712/BOXPC70/SmartPOS70/SmartPPC70
/X-POS70 Series”, and then click **RTL8111C Lan Driver** on the next screen.

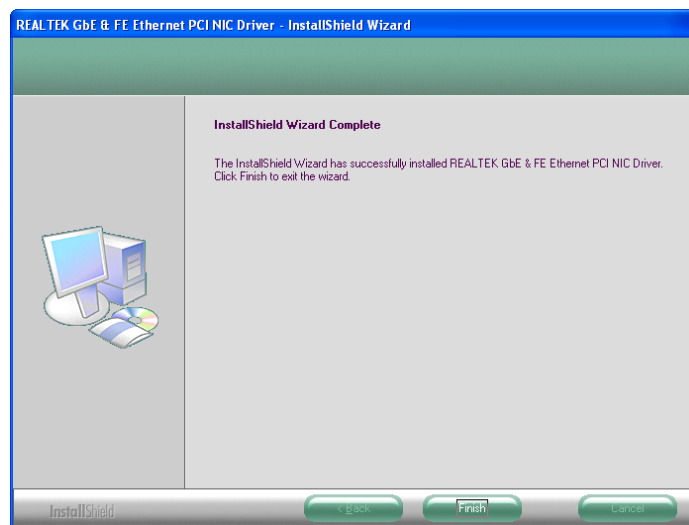


2.1. On the welcome screen, click **Next**.

2.2. Click Install to begin the installation.



3. Click **Finish**.

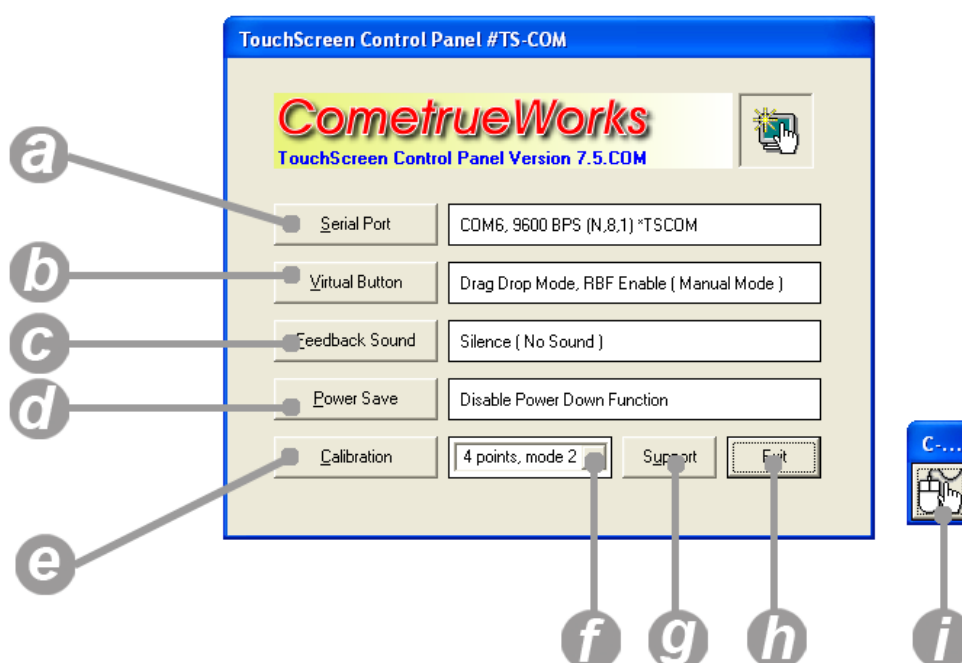


Touchscreen Control Panel Quick Guide

3.1. Launch Touchscreen V7.5.COM

1. Under Microsoft Windows XP, click “**start**” menu and select “**Programs**”, under “**Touchscreen V7.5.COM**” menu, click “**Touchscreen Control Panel V7.5.COM**”, the control panel of the program shows.

3.2. User interface

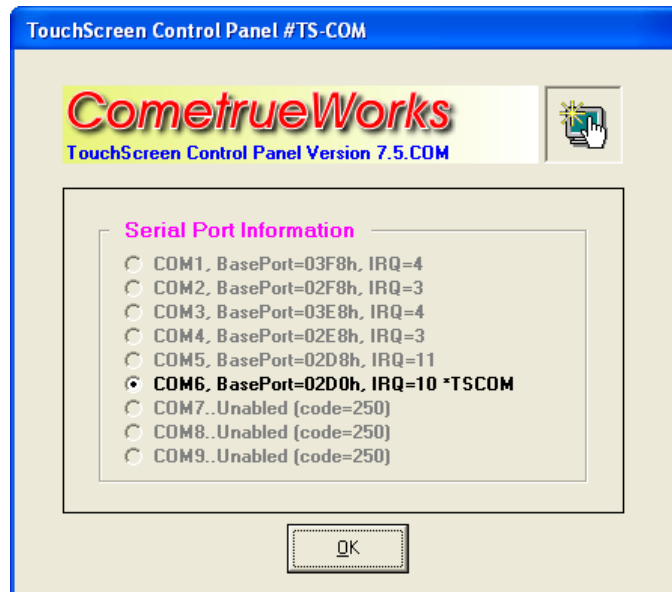


a	Serial Port	Display serial port information of the system.
b	Virtual Button	Open the virtual button setting dialogue box.
c	Feedback Sound	Open the feedback sound setting dialogue box.
d	Power Save	Open the power down timer adjustment dialogue box
e	Calibration	Switch to calibration screen.
f	Calibration Mode Menu	Select the calibration by clicking this drop-down list.
g	Support	Display technical support information.
h	Exit	Exit the program.
i	Event Selector	Enable right mouse button function. The default of this selector is with the left mouse button selected on. For details about event selector settings, please see “ How to Use Event Selector ” of Section 5.2.

3.3. Serial Port Information

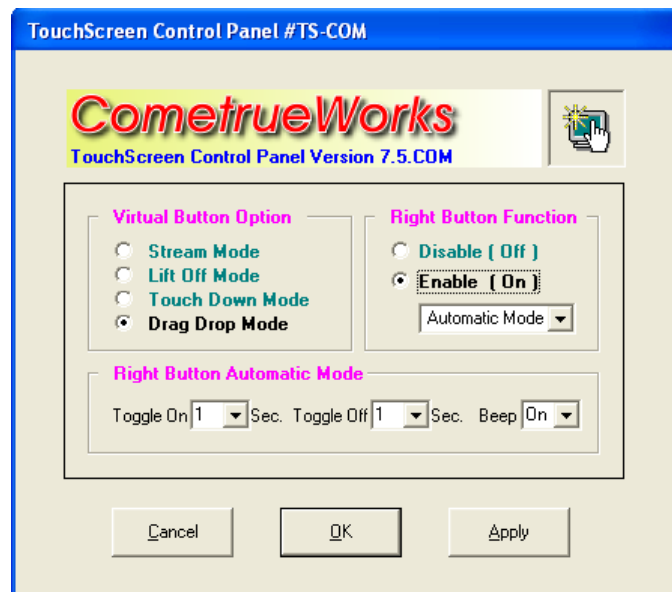
Click **Serial Port** button, the serial port information shows.

Click **OK** to back to the control panel.



3.4. Virtual Button Settings

Click **Virtual Button**, the dialogue box shows:



The selected option will be in black.

Virtual Button Option

Under **Virtual Button Option** field, there are four options:

- **Stream Mode**

Under this mode, all mouse button simulation will be disabled.

- **Lift off Mode**

Under **Lift off Mode**, tapping and holding on the screen equals pressing and holding on the left button of the mouse.

- **Touch Down Mode**

Under **Touch Down Mode**, one single-tapping equals one left mouse clicking.

- **Drag Drop Mode**

Drag Drop mode allows you to select an object on the screen by tapping, and then slide the selected object to a new location on the screen, the selected object will be dropped on the new location by releasing the touch.


The selected option will be in black.

Right Button Function

- **Disabled (Off)**

Select this option, the event selector  will be disabled and disappear.

- **Enable (On)**

Select this option, the event selector  will be enabled and show on the left-bottom corner of the screen.

- **Automatic Mode/Manual Mode Drop-down List**

If the Drag Drop Mode under **Virtual Button Option** field is select, the drop-down menu below the **Enable (On)** option will be enabled.


Automatic Mode

- Select this option, the Right Button Function will switch to automatic

mode and the event selector  will be disabled and disappear.

Manual Mode

- Select this option, the Right Button Function will switch to manual

mode and the event selector  will be enabled and show on the left-bottom corner of the screen.

- Options under **Right Button Automatic Mode** will be enabled when **Manual Mode** is selected.

The selected option will be in black.

Right Button Automatic Mode

Toggle On 0.5 Sec.

Toggle On time is the duration between the tapping on the screen and that the right mouse button is “virtually” pressed and held.

Release the tapping from screen after toggle-on, the pop-up menu shows.

The minimize value is 0.5 and maximum value is 5.

Toggle Off 4 Sec.

This option defines how long the right button function will be off.

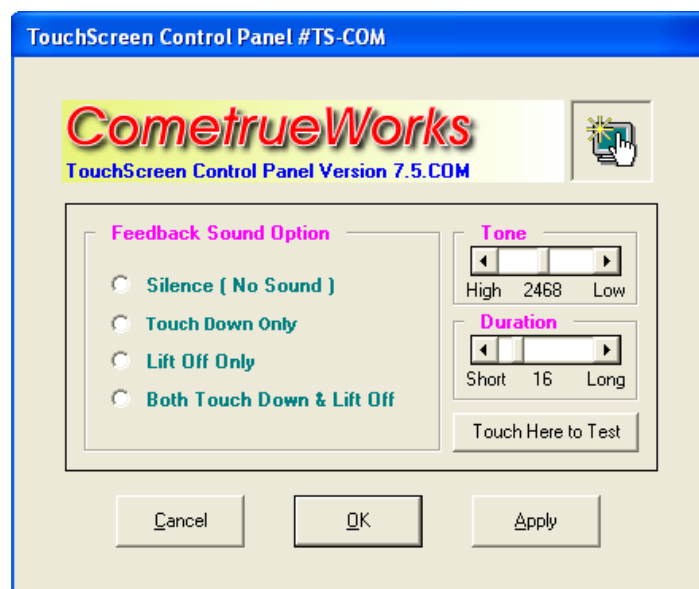
The minimize value is 0.5 and maximum value is 5.

Beep On

Click the drop-down menu to select **On** or **Off** to enable or disable the beep sound effect for toggle-on and toggle off.

3.5. Feedback Sound

Click **Feedback Sound** button, the dialogue box shows:



Feedback Sound Option

Silence (No Sound)

No any sound effect.

Touch Down Only

When this option is selected, there will be one “beep” sound when tapping on the screen.

Lift Off Only

When this option is selected, there will be one “beep” sound when releasing from the screen.

Both Touch Down & Lift Off

When this option is selected, there will be one “beep” sound when tapping on the screen and releasing from the screen.

Tone

Drag the bar to adjust the frequency of the sound effect.

The minimize value is 200 and maximum value is 5000.

Duration

Drag the bar to adjust how long the “Beep” sound will be.

The minimize value is 10 and maximum value is 50.

The selected option will be in black.

3.6. Screen Calibration


1. Click the drop menu next to the Calibration button to select calibration mode.

4 points, mode 1 – rectangular four-point calibration

4 points, mode 2 – rhombic four-point calibration


2. Click **Calibration** button to enter the calibration screen.

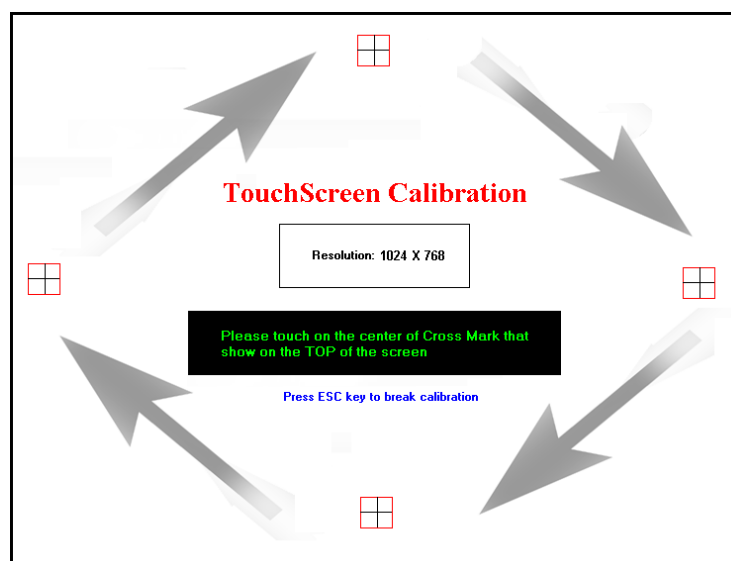
4 points, mode 1

- a. The  mark shows on the Left-up corner.
- b. Follow the instruction in green to touch the center of Cross Mark.
- c. When the instruction turns into yellow, releasing the tapping from the screen.
- d. Follow the instruction in green to touch the center of Cross Mark.
- e. Repeat Step 2 – Step4 to finish the calibration procedure.

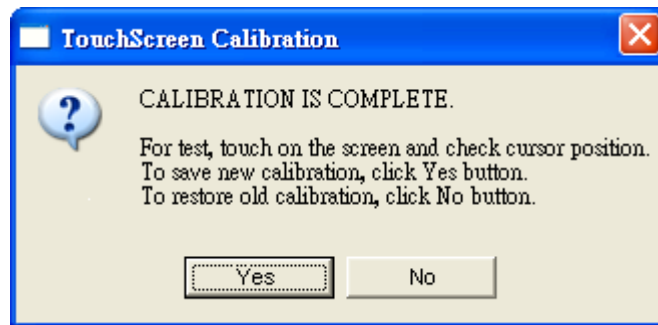


4 points, mode 2

- a. The  mark shows in the middle of the length of the screen..
- b. Follow the instruction in green to touch the center of Cross Mark.
- c. When the instruction turns into yellow, releasing the tapping from the screen.
- d. Follow the instruction in green to touch the center of Cross Mark.
- e. Repeat Step 2 – Step4 to finish the calibration procedure.








3. When the calibration procedure is completed, the message shows:



To save the new calibration, click **Yes**, to restore the old calibration, click **No**.

How to Use Event Selector

1. On the desktop of Windows, click  icon.
2.  icon change to .
3. Now the tapping is simulating right mouse button clicking.
4. After one tap on the screen,  icon change to .
5. The tapping resumes to left mouse button clicking

I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

4.1. Power Connector



PIN	Description	PIN	Description
1	+19V	3	GROUND
2	+19V	4	GROUND

4.2. Serial Port



COM Port 1/2/3			
PIN	Description	PIN	Description
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 5V /12V
5	GND	10	NC

4.3. Cash Drawer



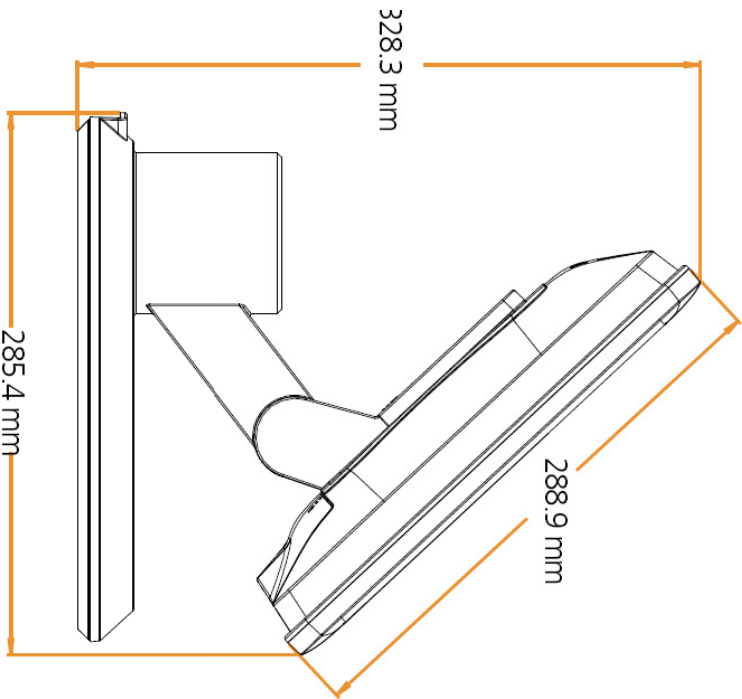
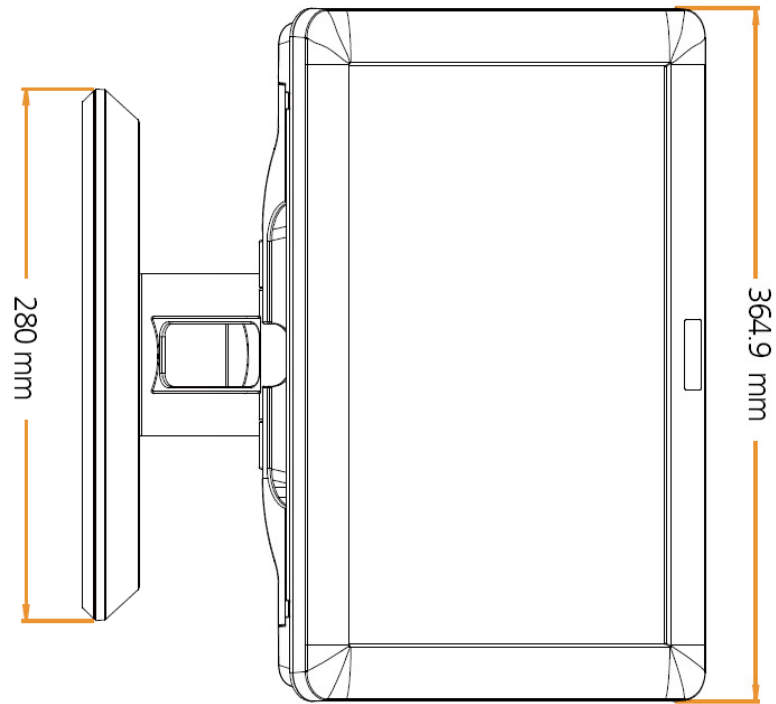
Connector

PIN	Description	PIN	Description
1	GND	4	D_IN
2	NC	5	D_OUT
3	VCC	6	GND

Cash Drawer Control

Status	Address	Value
Open	280H	Bit 4 = 0
Close	280H	Bit 4 = 1
Read Status	281H	Bit 0 = 0/1

Specification



UNIT	mm
RANGE	TOLERANCES
0 – 10	± 0.10
10 – 50	± 0.15
50 – 100	± 0.20
100 –	± 0.25

Main Board	
CPU	Intel® Celeron® M 1.5GHz w/1MB L2 cache
Chipset	I Intel® 852GM + ICH4
System Memory	SO-DIMM DDR, 128MB up to 1GB
Thermal Solution	Fan-less
OS	Windows® XP / XPe, WEPOS, WinCE*, Linux*
Display	
TFT LCD Size	15"
Brightness	250 nits
Resolution	1024 x 768
Touch Screen	5-wire Resistive Type
Storage Device	
HDD	1 x 2.5" SATA
Compact Flash	1 x slot compact flash type II
I/O Ports	
Serial	6 x RS-232 COM 1/2/3 : DB-9, RS-232, Pin9 w/ RI/5V/12V Selectable by BIOS COM 4 : Internal Pin header (for optional customer display) COM 5 : 15-Pin Header COM 6 : Internal for Touch Panel
Parallel	1 x DB25
USB	4 x USB 2.0
LAN	1 x Gigabit Ethernet by RJ-45
Cash Drawer	1 x RJ-11 (Power Pin 12V)
Expansion	Internal for optional Wireless LAN Module
Others	
Wall mount	Support VESA Mount
Power Supply	External adapter, 135W, 19VDC input
UPS Power Backup(Optional)	Support Smart Battery 4P1S back up function
Color	Black/Silver (Two Tone)
Material	Plastic / Aluminum
EMC& Safety Compliance	FCC / CE / WEEE / RoHS
Weight	7.8 Kg (approx.)
Dimension	364.9 W x328.3 Hx285.4 D(mm)
Operation Temperature	5°C ~ 35°C
Storage Temperature	-20° ~ 60°C
Storage Humidity	20 – 85% RH, non-condensing